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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/671,953

DATE: 08/21/2001

TIME: 11:11:34

Input Set : A:\Uco991-2.app

Output Set: N:\CRF3\08162001\I671953.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Meares, Claude  
 4 Chmura, Albert  
 5 The Regents of the University of California  
 7 <120> TITLE OF INVENTION: Engineering Antibodies That Bind Irreversibly  
 9 <130> FILE REFERENCE: 023070-099120US  
 11 <140> CURRENT APPLICATION NUMBER: US 09/671,953  
 12 <141> CURRENT FILING DATE: 2000-09-27  
 14 <150> PRIOR APPLICATION NUMBER: US 60/156,194  
 15 <151> PRIOR FILING DATE: 1999-09-27  
 17 <150> PRIOR APPLICATION NUMBER: US 60/208,684  
 18 <151> PRIOR FILING DATE: 2000-05-31  
 20 <160> NUMBER OF SEQ ID NOS: 23  
 22 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

442 <210> SEQ ID NO: 16  
 443 <211> LENGTH: 360  
 444 <212> TYPE: DNA  
 445 <213> ORGANISM: Artificial Sequence  
 447 <220> FEATURE:  
 448 <223> OTHER INFORMATION: Description of Artificial Sequence:V-H sequence of  
 E--> 449 cha255  
 451 <220> FEATURE:  
 452 <221> NAME/KEY: CDS  
 453 <222> LOCATION: (1)..(360)  
 W--> 455 <210> SEQ ID NO:  
 W--> 455 <211> LENGTH:  
 W--> 455 <212> TYPE:  
 W--> 455 <213> ORGANISM:  
 455 <400> SEQUENCE: 16  
 E--> 456 gaa gtg acg ctg gtg gag tct ggg gga gac tca gtg aag cct gga ggg 48  
 457 Glu Val Thr Leu Val Glu Ser Gly Gly Asp Ser Val Lys Pro Gly Gly  
 458 1 5 10 15  
 460 tcc ctg aaa ctc tcc tgt gca gcc tct gga ttc act tta agt ggt gaa 96  
 461 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Gly Glu  
 462 20 25 30  
 464 acc atg tct tgg gtt cgc cag act ccg gag aag agg ctg gag tgg gtc 144  
 465 Thr Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val  
 466 35 40 45  
 468 gca acc act ctt agt ggt ggt ggt ttc acc ttc tat tca gcc agt gtg 192  
 469 Ala Thr Thr Leu Ser Gly Gly Gly Phe Thr Phe Tyr Ser Ala Ser Val  
 470 50 55 60  
 472 aag ggt cgt ttc acc atc tcc aga gac aat gcc cag aac aac ctc tat 240  
 473 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Asn Leu Tyr  
 474 65 70 75 80

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```

476 cta caa ctg aat agt ctg agg tct gag gac acg gcc ttg tat ttc tgt 288
477 Leu Gln Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Phe Cys
478                      85                      90                      95
480 gca agt cat cgg ttt gtt cac tgg ggc cac ggg act ctg gtc act gtc 336
481 Ala Ser His Arg Phe Val His Trp Gly His Gly Thr Leu Val Thr Val
482                      100                      105                      110
484 tct gca gcc aaa acg aca ccc cca 360
485 Ser Ala Ala Lys Thr Thr Pro Pro
486                      115                      120
489 <210> SEQ ID NO: 17
490 <211> LENGTH: 120
491 <212> TYPE: PRT
492 <213> ORGANISM: Artificial Sequence
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493 <223> OTHER INFORMATION: Description of Artificial Sequence:V-H sequence of
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W--> 496 <210> SEQ ID NO:
W--> 496 <211> LENGTH:
W--> 496 <212> TYPE:
W--> 496 <213> ORGANISM:
496 <400> SEQUENCE: 17
E--> 497 Glu Val Thr Leu Val Glu Ser Gly Gly Asp Ser Val Lys Pro Gly Gly
498 1 5 10 15
500 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Gly Glu
501 20 25 30
503 Thr Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
504 35 40 45
506 Ala Thr Thr Leu Ser Gly Gly Gly Phe Thr Phe Tyr Ser Ala Ser Val
507 50 55 60
509 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Asn Leu Tyr
510 65 70 75 80
512 Leu Gln Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Phe Cys
513 85 90 95
515 Ala Ser His Arg Phe Val His Trp Gly His Gly Thr Leu Val Thr Val
516 100 105 110
518 Ser Ala Ala Lys Thr Thr Pro Pro
519 115 120

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## VERIFICATION SUMMARY

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Input Set : A:\Uco991-2.app

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L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:449 M:254 E: No. of Bases conflict, LENGTH:Input:255 Counted:3 SEQ:16  
L:449 M:112 C: (48) String data converted to lower case,  
L:449 M:252 E: No. of Seq. differs, <211>LENGTH:Input:360 Found:3 SEQ:16  
L:455 M:282 W: Numeric Field Identifier Missing, <210> is required.  
L:455 M:282 W: Numeric Field Identifier Missing, <211> is required.  
L:455 M:282 W: Numeric Field Identifier Missing, <212> is required.  
L:455 M:282 W: Numeric Field Identifier Missing, <213> is required.  
L:493 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:494 M:252 E: No. of Seq. differs, <211>LENGTH:Input:120 Found:0 SEQ:17  
L:496 M:282 W: Numeric Field Identifier Missing, <210> is required.  
L:496 M:282 W: Numeric Field Identifier Missing, <211> is required.  
L:496 M:282 W: Numeric Field Identifier Missing, <212> is required.  
L:496 M:282 W: Numeric Field Identifier Missing, <213> is required.  
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:609 M:258 W: Mandatory Feature missing, <220> FEATURE: